



Performance Data Sheet

HGA5512EXC

General Information

Model	HGA5512EXC	Refrigerant	R-22
Test Condition	ASHRAE	Performance Test Voltage	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	3190	2940					
	Watts	473	505					
	Amps	2.20	2.29					
	Lb/h	41.5	39.5					
-10	Btu/h	3620	3370	3130				
	Watts	485	521	554				
	Amps	2.28	2.40	2.52				
	Lb/h	46.7	45.0	43.5				
-5	Btu/h	4110	3850	3600	3350			
	Watts	496	536	573	607			
	Amps	2.35	2.48	2.63	2.78			
	Lb/h	52.7	51.1	49.7	48.4			
0	Btu/h	4660	4390	4120	3850	3580		
	Watts	504	548	590	630	666		
	Amps	2.40	2.55	2.72	2.90	3.06		
	Lb/h	59.3	57.8	56.4	55.2	53.9		
5	Btu/h	5280	4990	4700	4400	4100		
	Watts	511	558	604	649	692		
	Amps	2.44	2.61	2.80	3.00	3.20		
	Lb/h	66.6	65.2	63.9	62.6	61.2		
10	Btu/h	5960	5650	5330	5010	4680	4340	4000
	Watts	516	566	616	667	715	761	802
	Amps	2.47	2.65	2.86	3.09	3.32	3.53	3.71
	Lb/h	74.7	73.3	72.0	70.6	69.1	67.4	65.4
15	Btu/h	6700	6370	6020	5670	5300	4920	4530
	Watts	519	572	626	681	736	788	838
	Amps	2.49	2.68	2.90	3.15	3.41	3.66	3.88
	Lb/h	83.4	82.1	80.7	79.2	77.6	75.6	73.4
20	Btu/h	7510	7150	6770	6380	5970	5540	5100
	Watts	521	576	633	693	753	812	869
	Amps	2.50	2.69	2.93	3.20	3.49	3.77	4.03
	Lb/h	92.8	91.6	90.2	88.6	86.7	84.5	81.9

25	Btu/h	8390	8000	7580	7150	6690	6220	5720
	Watts	521	578	639	702	768	833	898
	Amps	2.50	2.70	2.95	3.24	3.55	3.86	4.16
	Lb/h	103	102	100	98.5	96.4	93.9	91.0
30	Btu/h	9330	8910	8450	7970	7470	6940	6390
	Watts	520	578	642	709	780	851	922
	Amps	2.49	2.69	2.96	3.26	3.60	3.94	4.27
	Lb/h	114	113	111	109	107	104	101
35	Btu/h	10300	9880	9380	8850	8300	7710	7100
	Watts	517	577	643	714	789	866	944
	Amps	2.47	2.68	2.95	3.27	3.63	4.00	4.37
	Lb/h	125	124	123	120	118	115	111
40	Btu/h	11400	10900	10400	9800	9180	8530	7850
	Watts	512	573	642	716	795	878	962
	Amps	2.45	2.66	2.94	3.28	3.65	4.04	4.44
	Lb/h	138	136	135	132	130	126	122
45	Btu/h	12600	12000	11400	10800	10100	9410	8660
	Watts	506	568	639	716	799	887	977
	Amps	2.43	2.64	2.92	3.27	3.66	4.07	4.50
	Lb/h	151	149	148	145	142	138	134
50	Btu/h	13800	13200	12600	11900	11100	10300	9520
	Watts	499	561	633	713	800	892	989
	Amps	2.41	2.61	2.90	3.25	3.65	4.09	4.55
	Lb/h	165	163	161	158	155	151	146
55	Btu/h	15100	14500	13800	13000	12200	11300	10400
	Watts	490	553	626	709	799	895	998
	Amps	2.38	2.58	2.86	3.23	3.64	4.10	4.58
	Lb/h	179	178	175	172	169	164	158

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.632885E+03	2.667297E+02	4.057892E+00	8.312027E+01
C2	1.068643E+02	3.632334E+00	3.011612E-02	6.864366E-01
C3	-2.068574E+01	1.981782E-01	-7.270819E-02	-4.944302E-01
C4	1.881231E+00	1.355323E-02	5.109765E-05	1.718429E-02
C5	4.834122E-01	-1.107143E-01	-7.615637E-04	1.477637E-02
C6	-6.870069E-02	5.168436E-02	8.776521E-04	3.206441E-03
C7	1.590855E-03	4.688308E-05	1.708092E-06	9.270379E-06
C8	-7.856378E-03	-6.045924E-04	-4.039429E-06	-4.254279E-05
C9	-4.509909E-03	1.053565E-03	6.282969E-06	-7.402820E-05
C10	2.427556E-04	-2.134698E-04	-2.839228E-06	-9.294330E-06

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature